

ZPD2.7 THRU ZPD51

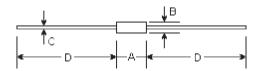
SILICON PLANAR ZENER DIODES

Features

Silicon Planar Zener Diodes

The Zener voltages are graded according to the international E 24 standard. Smaller voltage tolerances and higher Zener voltages on request.

DO-35



DIMENSIONS								
DIM	incl	nes	m	Note				
	Min.	Max.	Min.	Max.	Note			
Α	-	0.154	1	3.9				
В	-	0.075	1	1.9	ф			
С	-	0.020	-	0.52	ф			
D	1.083	-	27.50	-				

Absolute Maximum Ratings (T_a=25°C)

	Symbols	Values	Units
Zener current see Table "Characteristics"			
Power dissipation at T $_{\mbox{\tiny amb}}$ =25 $^{\circ}{\mbox{\tiny C}}$	P _{tot}	500 ¹⁾	mW
Junction temperature	T _j	175	$^{\circ}$
Storage temperature range	T _s	-55 to +175	°C

Note:

Characteristics at T_{amb}=25°C

	Symbols	Min.	Тур.	Max.	Units
Thermal resistance junction to ambient Air	R_{thA}	-	-	0.3 1)	K/mW

Note:

⁽¹⁾ Valid provided that leads at a distance of 8 mm from case are kept at ambient temperature.

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Туре	Zener vo	Zener voltage range 1)			Dynamic resistance			Reverse voltage at I=100nA	Admissible Zener current ²⁾	
1,700	V _{znom}	I _{ZT} for V _{ZT} ²⁾		$ m r_{z T}$ and $ m r_{z k}$ at $ m I_{z_K}$			a _{vz}	V_R	at T _{amb} =45℃	at T _{amb} =25℃
	V	mA	٧	Ω	Ω	mA	10⁴/K	V	I _z mA	I _z mA
ZPD2.7	2.7	5	2.5 2.9	(<83)	<50	1	-94	-	135	160
ZPD3	3.0	5	2.8 3.2	(<95)	<500	1	-93	-	117	140
ZPD3.3	3.3	5	3.1 3.5	(<95)	<500	1	-83	-	109	130
ZPD3.6	3.6	5	3.4 3.8	(<95)	<500	1	-83	-	101	120
ZPD3.9	3.9	5	3.7 4.1	(<95)	<500	1	-73	-	92	110
ZPD4.3	4.3	5	4.0 4.6	(<95)	<500	1	-61	-	85	100
ZPD4.7	4.7	5	4.4 5.0	(<78)	<500	1	-5 +2	-	76	90
ZPD5.1	5.1	5	4.8 5.4	(<60)	<480	1	-3 +4	>0.8	67	80
ZPD5.6	5.6	5	5.2 6.0	(<40)	<400	1	-2 +6	>1	59	70
ZPD6.2	6.2	5	5.8 6.6	(<10)	<200	1	-1 +7	>2	54	64
ZPD6.8	6.8	5	6.4 7.2	(<8)	<150	1	+2 +7	>3	49	58
ZPD7.5	7.5	5	7.0 7.9	(<7)	<50	1	+3 +7	>5	44	53
ZPD8.2	8.2	5	7.7 8.7	(<7)	<50	1	+4 +7	>6	40	47
ZPD9.1	9.1	5	8.5 9.6	(<10)	<50	1	+5 +8	>7	36	43
ZPD10	10	5	9.4 10.6	(<15)	<70	1	+5 +8	>7.5	33	40
ZPD11	11	5	10.4 11.6	(<20)	<70	1	+5 +9	>8.5	30	36
ZPD12	12	5	11.4 12.7	(<20)	<90	1	+6 +9	>9	28	32
ZPD13	13	5	12.4 14.1	(<25)	<110	1	+7 +9	>10	25	29
ZPD15	15	5	13.8 15.6	(<30)	<110	1	+7 +9	>11	23	27
ZPD16	16	5	15.3 17.1	(<40)	<170	1	+8 +9.5	>12	20	24
ZPD18	18	5	16.8 19.1	(<50)	<170	1	+8 +9.5	>14	18	21
ZPD20	20	5	18.8 21.2	(<50)	<220	1	+8 +10	>15	17	20
ZPD22	22	5	20.8 23.3	(<55)	<220	1	+8 +10	>17	16	18
ZPD24	24	5	22.8 25.6	(<80)	<220	1	+8 +10	>18	13	16
ZPD27	27	5	25.1 28.9	(<80)	<250	1	+8 +10	>20	12	14
ZPD30	30	5	28 32	(<80)	<250	1	+8 +10	>22.5	10	13
ZPD33	33	5	31 35	(<80)	<250	1	+8 +10	>25	9	12
ZPD36	36	5	34 38	(<90)	<250	1	+8 +10	>27	9	11
ZPD39	39	5	37 41	(<90)	<300	1	+10 +12	>29	8	10
ZPD43	43	5	40 46	(<100)	<700	1	+10 +12	>32	7	9.2
ZPD47	47	5	44 50	(<100)	<750	1	+10 +12	>35	6	8.5
ZPD51	51	5	48 54	(<100)	<750	1	+10 +12	>38	6	7.8

Notes:

⁽¹⁾ Tested with pulses tp=20ms.
(2) Valid provided that leads are kept at ambient temperature at a distance of 8 mm from case.

RATINGS AND CHARACTERISTIC CURVES

